

10022476-131804  
FOSTER, GREGORY

What is claimed is:

1. A method for treatment of infestations of cutaneous mites comprising:  
  
applying a composition to skin, wherein the composition comprises sulfur, one or more sulfur derivative and a dermatologically acceptable carrier.
2. The method of claim 1 further comprising washing the composition from the skin.
3. The method of claim 2 further comprising rewashing the composition from the skin.
4. The method of claim 1 wherein the composition comprises a cleanser.
5. The method of claim 1 wherein the composition has a pH of 6.5 to 8.1.
6. The method of claim 1, 2, or 3 wherein the composition has a pH of about 7.0 to about 8.1.
7. The method of claim 1, 2, or 3 wherein the composition has a pH of about 7.7 to about 8.1.
8. The method of claim 1, 2, or 3 wherein the composition has a pH of about 7.3 to about 7.7.
9. The method of claims 1, 2 or 3 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1.
10. The method of claim 1 wherein the sulfur derivative comprises one or more cationic sulfur compounds.

11. The method of claim 1 wherein the sulfur derivative comprises one or more of the group consisting of selenium sulfide, potassium sulfide, poly-potassium sulfide, and poly-calcium poly-sulfide; H<sub>2</sub>S; sulfuric acid; bisulfides; sulfur dioxide; thiols; organic salts; sodium sulfacetamide; sulfites; and mercaptans.
12. The method of claim 1 wherein the sulfur derivative comprises sodium sulfacetamide.
13. The method of claims 1, 2, or 3 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide.
14. The method of claim 11 wherein the sulfur derivative is present in the range of about 10%.
15. The method of claims 1, 2, or 3 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide present in the range of about 10% and wherein the sulfur is present in the range of about 5%.
16. The method of claim 1 wherein the mites are of the genus *Demodex*.
17. The method of claim 1 wherein the carrier comprises an aqueous base.
18. The method of claim 1 wherein the composition comprises a high sorption base.
19. The method of claim 18 wherein the high sorption base comprises one or more of the group consisting of non-swelling clay, gum, swelling clay and silicon.

FOI b7E b7C b7D

20. The method of claim 19 wherein the non-swelling clay comprises kaolin.
21. The method of claim 19 wherein the non-swelling clay is present at about 18.00%.
22. The method of claim 19 wherein the gum comprises xanthan gum.
23. The method of claim 19 wherein the gum is present at about 0.30%.
24. The method of claim 19 wherein the swelling clay comprises magnesium aluminum silicate.
25. The method of claim 19 wherein the swelling clay is present at about 1.50%.
26. The method of claim 19 wherein the silicon comprises silicon dioxide.
27. The method of claim 19 wherein the silicon is present at about 5.00%.
28. The method of claim 19 wherein the composition further comprises water.
29. The method of claim 19 wherein the water is present at about 40-50%.
30. A method for prevention of infestations of cutaneous mites comprising

Applying a composition to skin, wherein the composition comprises sulfur, one or more sulfur derivative and a dermatologically acceptable carrier.

31. The method of claim 30 further comprising washing the composition from the skin.
32. The method of claim 31 further comprising rewashing the composition from the skin.
33. The method of claim 30 wherein the composition comprises a cleanser.
34. The method of claim 30, 31 or 32 wherein the composition has a pH of about 7.0 to about 8.1.
35. The method of claim 30, 31 or 32 wherein the composition has a pH of about 7.7 to about 8.1.
36. The method of claim 30, 31 or 32 wherein the composition has a pH of about 7.3 to about 7.7.
37. The method of claims 30, 31 or 32 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1.
38. The method of claim 30 wherein the sulfur derivative comprises one or more cationic sulfur compounds.
39. The method of claim 30 wherein the sulfur derivative comprises one or more of the group consisting of selenium sulfide, potassium sulfide, poly-potassium sulfide, and poly-calcium poly-sulfide; H<sub>2</sub>S; sulfuric acid; bisulfides; sulfur dioxide; thiols; organic salts; sodium sulfacetamide; sulfites; and mercaptans.
40. The method of claim 30 wherein the sulfur derivative comprises sodium sulfacetamide.

41. The method of claims 30, 31, or 32 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide.
42. The method of claim 39 wherein the sulfur derivative is present in the range of about 10%.
43. The method of claims 30, 31, or 32 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide present in the range of about 10% and wherein the sulfur is present in the range of about 5%.
44. The method of claim 30 wherein the mites are of the genus *Demodex*.
45. The method of claim 30 wherein the carrier comprises an aqueous base.
46. The method of claim 30 wherein the composition comprises a high sorption base.
47. The method of claim 46 wherein the high sorption base comprises one or more of the group consisting of non-swelling clay, gum, swelling clay and silicon.
48. The method of claim 47 wherein the non-swelling clay comprises kaolin.
49. The method of claim 47 wherein the non-swelling clay is present at about 18.00%.
50. The method of claim 47 wherein the gum comprises xanthan gum.
51. The method of claim 47 wherein the gum is present at about 0.30%.

FOOTNOTES 9422001

- 52. The method of claim 47 wherein the swelling clay comprises magnesium aluminum silicate.
- 53. The method of claim 47 wherein the swelling clay is present at about 1.50%.
- 54. The method of claim 47 wherein the silicon comprises silicon dioxide.
- 55. The method of claim 47 wherein the silicon is present at about 5.00%.
- 56. The method of claim 47 wherein the composition further comprises water.
- 57. The method of claim 47 wherein the water is present at about 40-50%.
- 58. A method for treatment of infestations of cutaneous mites comprising:

Applying a composition to skin, wherein the composition comprises a cleanser comprising about 5% sulfur, about 10% sodium sulfacetamide and a dermatologically acceptable carrier, the composition has a pH of about 6.5 to 8.1;

Washing and rewashing the composition from the skin.

- 59. A method for reducing skin inflammation relating to infestations of cutaneous mites comprising

Applying a composition to skin, wherein the composition comprises sulfur, one or more sulfur derivative and a dermatologically acceptable carrier.

60. The method of claim 59 further comprising washing the composition from the skin.
61. The method of claim 60 further comprising rewashing the composition from the skin.
62. The method of claim 59 wherein the composition comprises a cleanser.
63. The method of claim 59, 60 or 61 wherein the composition has a pH of about 7.0 to about 8.1.
64. The method of claim 59, 60 or 61 wherein the composition has a pH of about 7.7 to about 8.1.
65. The method of claim 59, 60 or 61 wherein the composition has a pH of about 7.3 to about 7.7.
66. The method of claims 59, 60 or 61 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1.
67. The method of claim 59 wherein the sulfur derivative comprises one or more cationic sulfur compounds.
68. The method of claim 59 wherein the sulfur derivative comprises one or more of the group consisting of selenium sulfide, potassium sulfide, poly-potassium sulfide, and poly-calcium poly-sulfide; H<sub>2</sub>S; sulfuric acid; bisulfides; sulfur dioxide; thiols; organic salts; sodium sulfacetamide; sulfites; and mercaptans.
69. The method of claim 59 wherein the sulfur derivative comprises sodium sulfacetamide.

70. The method of claims 59, 60 or 61 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide.
71. The method of claim 68 wherein the sulfur derivative is present in the range of about 10%.
72. The method of claims 59, 60 or 61 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide present in the range of about 10% and wherein the sulfur is present in the range of about 5%.
73. The method of claim 59 wherein the mites are of the genus *Demodex*.
74. The method of claim 59 wherein the carrier comprises an aqueous base.
75. The method of claim 59 wherein the composition comprises a high sorption base.
76. The method of claim 75 wherein the high sorption base comprises one or more of the group consisting of non-swelling clay, gum, swelling clay and silicon.
77. The method of claim 76 wherein the non-swelling clay comprises kaolin.
78. The method of claim 76 wherein the non-swelling clay is present at about 18.00%.
79. The method of claim 76 wherein the gum comprises xanthan gum.
80. The method of claim 76 wherein the gum is present at about 0.30%.



81. The method of claim 76 wherein the swelling clay comprises magnesium aluminum silicate.
82. The method of claim 76 wherein the swelling clay is present at about 1.50%.
83. The method of claim 76 wherein the silicon comprises silicon dioxide.
84. The method of claim 76 wherein the silicon is present at about 5.00%.
85. The method of claim 76 wherein the composition further comprises water.
86. The method of claim 85 wherein the water is present at about 40-50%.
87. A method for reducing skin inflammation relating to infestations of cutaneous mites comprising

Applying a composition to skin, wherein the composition comprises sulfur, one or more sulfur derivative and a dermatologically acceptable carrier.

88. The method of claim 87 further comprising washing the composition from the skin.
89. The method of claim 88 further comprising rewashing the composition from the skin.
90. The method of claim 87 wherein the composition comprises a cleanser.

91. The method of claim 87, 88 or 89 wherein the composition has a pH of about 7.0 to about 8.1.
92. The method of claim 87, 88 or 89 wherein the composition has a pH of about 7.7 to about 8.1.
93. The method of claim 87, 88 or 89 wherein the composition has a pH of about 7.3 to about 7.7.
94. The method of claims 87, 88 or 89 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1.
95. The method of claim 87 wherein the sulfur derivative comprises one or more cationic sulfur compounds.
96. The method of claim 87 wherein the sulfur derivative comprises one or more of the group consisting of selenium sulfide, potassium sulfide, poly-potassium sulfide, and poly-calcium poly-sulfide; H<sub>2</sub>S; sulfuric acid; bisulfides; sulfur dioxide; thiols; organic salts; sodium sulfacetamide; sulfites; and mercaptans.
97. The method of claim 87 wherein the sulfur derivative comprises sodium sulfacetamide.
98. The method of claims 87, 88 or 89 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative comprises sodium sulfacetamide.
99. The method of claim 96 wherein the sulfur derivative is present in the range of about 10%.
100. The method of claims 87, 88 or 89 wherein the composition comprises a cleanser with a pH of 6.5 to 8.1 and wherein the sulfur derivative

comprises sodium sulfacetamide present in the range of about 10% and wherein the sulfur is present in the range of about 5%.

101. The method of claim 87 wherein the mites are of the genus *Demodex*.
102. The method of claim 87 wherein the carrier comprises an aqueous base.
103. The method of claim 87 wherein the composition comprises a high sorption base.
104. The method of claim 103 wherein the high sorption base comprises one or more of the group consisting of non-swelling clay, gum, swelling clay and silicon.
105. The method of claim 103 wherein the non-swelling clay comprises kaolin.
106. The method of claim 103 wherein the non-swelling clay is present at about 18.00%.
107. The method of claim 103 wherein the gum comprises xanthan gum.
108. The method of claim 103 wherein the gum is present at about 0.30%.
109. The method of claim 103 wherein the swelling clay comprises magnesium aluminum silicate.
110. The method of claim 103 wherein the swelling clay is present at about 1.50%.

111. The method of claim 103 wherein the silicon comprises silicon dioxide.
112. The method of claim 103 wherein the silicon is present at about 5.00%.
113. The method of claim 103 wherein the composition further comprises water.
114. The method of claim 104 wherein the water is present at about 40-50%.
115. A method for prevention of infestations of cutaneous mites comprising:  
  
Applying a composition to skin, wherein the composition comprises a cleanser comprising about 5% sulfur, about 10% sodium sulfacetamide and a dermatologically acceptable carrier, the composition has a pH of about 6.5 to 8.1;  
  
Washing and rewashing the composition from the skin.